

ORIGINAL

DOCKET FILE COPY ORIGINAL

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

MAY 25 1997

In re)
)
Amendment of § 73.202(b),) MM Docket No. 97-__
Table of Allotments,) RM-_____
FM Broadcast Stations)
(CRESSON AND PATTON, PENNSYLVANIA))

To: The Chief, Allocations Branch,
Mass Media Bureau

JOINT PETITION FOR RULE MAKING

Sherlock Broadcasting, Inc. (SBI), the licensee of radio station WBRX(FM), Channel 234A, Patton, Pennsylvania, and Sounds Good, Inc. (SGI), the licensee of radio station WBXQ(FM), Channel 232A, Cresson, Pennsylvania, hereby jointly petition for the initiation of a rule making proceeding to amend the FM Table of Allotments, 47 C.F.R. § 73.202(b), so as to allow each licensee to improve its respective facility in the manner described below.

I. BACKGROUND

1. As licensed, SBI's Patton station WBRX and SGI's Cresson station WBXQ are "grandfathered, short spaced" facilities under § 73.213(c) of the Commission's Rules. Other short spacings have impeded improvement of each licensee's facilities in excess of 3000 watts

No. of Copies rec'd
List ABCDE

024
HMB

ERP and 100 meters HAAT, or equivalent. However, SBI and SGI have discovered that their facilities can exchange operating frequencies, with the end result that *both stations* will be able to improve to 6000 watts and 100 meters, or equivalent.

2. In other words:

- SBI seeks to improve its station WBRX by changing operating frequencies from Channel 234A₃ to Channel 232A₆, and by increasing to the equivalent of 6000 Watts ERP and 100 meters HAAT; and
- SGI seeks to improve its own station WBXQ by changing operating frequencies from Channel 232A₃ to Channel 234A₆, and by increasing to the equivalent of 6000 Watts ERP and 100 meters HAAT.

Clearly, SBI and SGI can effect such changes by filing and prosecuting a Petition for Rule Making and then following up on the successful outcome of that proceeding with construction-permit applications to implement the rule-making decision. However, SBI and SGI read the rules to provide for a more expeditious alternative: simultaneous, complementary “one-step” applications pursuant to § 73.202(b). Based on their reading of the rules, SBI and SGI have already filed “one-step” applications seeking to implement the frequency exchange and facilities improvements outlined above. However, as described in greater detail below, grant of such applications may require waivers of one provision of § 73.202(b). The applications already on file (filed May 20, 1997; file numbers not yet assigned) request such waivers on a contingent basis in the event the staff deems those waivers necessary. The purpose of this filing is to facilitate such improvements should the staff of the Audio Services Division deem that waivers are necessary but not grantable.

II. THIS PROPOSAL

3. SBI and SGI seek the following alterations to the FM Table of Allotments:

<u>COMMUNITY</u>	<u>PRESENT</u>	<u>AMENDED</u>
Cresson, Penna.	232A ₃	234A ₆
Patton, Penna.	234A ₃	236A ₆

4. These amendments will require complementary modifications to the two stations' licenses. However, because the two licensees are themselves the proponents of those modifications, no show-cause proceeding is necessary. See, e.g., Marina et al., California, 6 FCC Rcd 1491 (M.M. Bur. 1991) at n.1.¹ Because Channel 234A₆ at Cresson is mutually exclusive with the existing allotment WBXQ occupies (Channel 232A₃ at Cresson), and because Channel 232A₆ at Patton is mutually exclusive with the existing allotment WBRX occupies (Channel 234A₃ at Patton), no one may lodge a competing expression of interest in either altered allotment. See § 1.420(g)(3) of the Rules.

5. The engineering materials accompanying this application (Exhibits A and B, which are photocopies of the technical portions of the "one-step" applications already on file) demonstrate compliance with the Commission's requirements as regards reference points for the

¹SBI and SGI expressly waive their rights in that regard. See 47 C.F.R. § 1.87(h).

amended allotments with regard to full spacing and complete $70\text{-dB}\mu_{f(50,50)}$ irradiation of the respective communities of license.

6. Through the frequency exchanges proposed herein, each station will be able to operate with substantially greater spectral efficiency. Thus, prompt and simultaneous grant of the two applications will further the goals of § 307(b) of the Communications Act. In contexts such as these, spectral efficiency is a matter of “paramount” concern. Endicott, New York, 51 F.C.C. 2d 50, 51 (1975).

7. The licensees state their respective intentions to seek construction permits for the improvements described herein,² and to construct such facilities expeditiously upon grant of FCC authorizations to do so.

8. Finally, should the staff of the Audio Services Division deem that rule making is unnecessary in this context, the licensees will promptly seek dismissal of this Petition.

²Indeed, such applications are already on file.

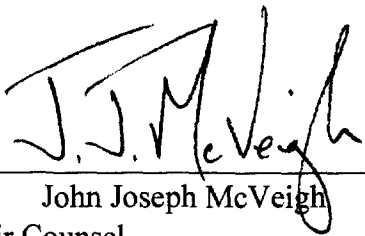
III. CONCLUSION

For the reasons stated, the staff should expeditiously commence rule making as proposed in this Petition.

Respectfully submitted,

SHERLOCK BROADCASTING, INC.

SOUNDS GOOD, INC.

By 
John Joseph McVeigh
Their Counsel

BERNSTEIN AND McVEIGH
1818 N Street Northwest, Suite 700
Washington, D.C. 20036
(202) 296-1800

Date: May 23, 1997

EXHIBIT A

ENGINEERING EXHIBITS

**APPLICATION FOR
CONSTRUCTION PERMIT FOR
CHANGE IN FACILITIES OF**

**WBRX, PATTON, PENNSYLVANIA
CHANNEL 232A - 94.3 MHz
ERP 2.10 kW AT 167 METERS AAT**

Sherlock Broadcasting, Inc.

April 1997

GALLAGHER & ASSOCIATES

CONSULTING RADIO ENGINEERS

HAGERSTOWN, MD

PROPOSED OPERATION
WBRX, PATTON, PENNSYLVANIA
Channel 232A - 94.3 MHz
ERP 2.10 kW AT 167 METERS AAT

CONTENTS OF REPORT

Section V-B of FCC Form 301

EXHIBIT NO. E-1	Engineering Statement
EXHIBIT NO. E-2	Vertical Sketch
EXHIBIT NO. E-3	U.S.G.S. 7.5 Minute Quadrangle Showing Transmitting Site
EXHIBIT NO. E-4	Tabulation of Distances to Field Strength Contours
EXHIBIT NO. E-5	Map Showing Coverage Contours and City Limits

SECTION V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. _____
SSB Referral Date _____
Referred By _____

Name of Applicant

Sherlock Broadcasting, Inc.

Call Letters (if issued)

WBRX

Is this application being filed in response to a window?

☐ Yes ☒ No

If Yes, specify closing date: **N/A**

Purpose of Application: (check appropriate boxes)

- | | |
|--|---|
| <input type="checkbox"/> Construct a new (main) facility | <input type="checkbox"/> Construct a new auxiliary facility |
| <input type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary facility |
| <input checked="" type="checkbox"/> Modify licensed main facility | <input type="checkbox"/> Modify licensed auxiliary facility |

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- | | |
|--|--|
| <input checked="" type="checkbox"/> Antenna supporting structure height | <input checked="" type="checkbox"/> Effective radiated power |
| <input checked="" type="checkbox"/> Antenna height above average terrain | <input checked="" type="checkbox"/> Frequency |
| <input checked="" type="checkbox"/> Antenna location | <input type="checkbox"/> Class |
| <input type="checkbox"/> Main Studio location | <input checked="" type="checkbox"/> One-Step processing |
| <input type="checkbox"/> Directional Antenna | <input checked="" type="checkbox"/> Other(summarize) |

**Channel swap with
WBXQ, Cresson, PA,
See Exhibit No. E-1**

File Number(s) **BLH-890207KD**

1. Allocation:

Channel No.	Principal community to be served:		
	County	City or Town	State
232	Cambria	Patton	PA

Class (check only one box)

- ☒ A ☐ B1 ☐ B ☐ C3
☐ C2 ☐ C1 ☐ C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

SR 36, 3.3 kilometers northwest of Patton, Cambria Co., PA

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude and East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed. (The Commission requires coordinates based on NAD 27.)

Latitude	40 °	39 '	17 "	Longitude	78 °	40 '	34 "
----------	-------------	-------------	-------------	-----------	-------------	-------------	-------------

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both.

BPH-960520MI

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

No Change

Section V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?
If Yes, list old coordinates.

☐ Yes ☒ No

Latitude	0	Longitude	0
----------	---	-----------	---

5. Has the FAA been notified of the proposed construction?

☐ Yes ☒ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. **No change in height & less than 200' AGL**

Exhibit No.
N/A

Date _____ Office where filed _____

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	None		
(b)			

7. (a) Elevation (to the nearest meter)

(1) of site above mean sea level; 680 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 31 meters

(3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)]. 711 meters

- (b) Height of radiation center: (to the nearest meter) H = Horizontal; V = Vertical

(1) above ground; 25 meters (H)

25 meters (V)

(2) above mean sea level [(a)(1) + (b)(1)]; and 705 meters (H)

705 meters (V)

(3) above average terrain. 167 meters (H)

167 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labeling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.
E-2

9. Effective Radiated Power:

(a) ERP in the horizontal plane 2.10 kw (H*) 2.10 kw (V*)

Is beam tilt proposed?

☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevation plot of radiated field.

N/A kw (H*) N/A kw (V*)

Exhibit No.
N/A

*Polarization

Section V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Does this proposal modify a new unbuilt construction permit for an unbuilt, unlicensed facility?

☐ Yes ☒ No

If Yes, submit an Exhibit demonstrating compliance with 47 C.F.R. Section 73.3535 that includes a certification that construction will commence immediately upon grant of the construction permit application.

Exhibit No.
N/A

11. Is a directional antenna proposed?

☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including

Exhibit No.
N/A

12. Will the proposed facility satisfy the requirements of 47 C.F.R. Section 73.315(a) and (b)?

☒ Yes ☐ No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and

Exhibit No.
N/A

13. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.
N/A

14. Is this application being filed as a One-step proposal pursuant to the Report & Order in MM Docket

☒ Yes ☐ No

If Yes, list the proposed allotment site coordinates to the nearest second below and attach an Exhibit demonstrating that the proposed allotment site is in compliance with the allotment standards. The Exhibit must contain: (1) an allotment site map that complies with the requirements of the April 5, 1985, Public Notice, Mimeo 3693, or a statement that the allotment site will be located on an existing tower; (2) a city coverage map, showing the allotment site is in compliance with 47 C.F.R. Section 73.315; (3) a showing demonstrating that the allotment site meets the minimum distance separation requirements of 47 C.F.R. Section 73.207; and (4) a statement that the proposed allotment site is suitable for tower construction.

Exhibit No.
E-1

Latitude	40°	39'	17"	Longitude	78°	40'	34"
----------	-----	-----	-----	-----------	-----	-----	-----

15. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

☒ Yes ☐ No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

☐ Yes ☐ No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.
N/A

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.
N/A

(e) Is authorization pursuant to 47 C.F.R. Section 73.215 requested?

☐ Yes ☒ No

If the answer to (e) is Yes, attach as an Exhibit a complete engineering study demonstrating compliance with the minimum spacing requirements of 47 C.F.R. Section 73.215(e) and lack of prohibited overlap with the affected stations. The engineering study must include the following:

Exhibit No.
N/A

Section V-B - FM BROADCAST ENGINEERING DATA (Page 4)

- (1) Protected and interfering contours, In all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the Exhibit(s).

16. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band and amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(e) and 73.318.)

Exhibit No.
E-1

17. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V (D). The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.
E-3

18. Attach as an Exhibit (name the source) a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.
E-5

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 3.16 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

19. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 2453 sq. km.

Population 96,030

20. For an application involving an auxiliary facility only, attach as an Exhibit a map (Sectional Aeronautical Chart or equivalent) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.
N/A

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

Section V-B - FM BROADCAST ENGINEERING DATA (Page 5)

21. Terrain and coverage data (to be calculated in accordance with 47 C.F.R. Section 73.313)

Source of terrain data: (check only one box below)



Linearly interpolated 30-second database



7.5 minute topographic map

(Source: NGDC)



Linearly interpolated 3-second database



Other (summarize)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
*			
0			
45			
90	SEE	EXHIBIT NO.	E-4
135			
180			
225			
270			
315			

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

22. Environmental Statement. (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within 47 C.F.R. Section 1.1307, such that it may have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding identified health and safety guidelines issued by the American National Standards Institute?



Yes



No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by 47 C.F.R. Section 1.1311.

Exhibit No.
N/A

If No, explain briefly why not. **See Exhibit No. E-1**

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed) Charles I. Gallagher	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer
Signature <i>Charles I. Gallagher</i>	Address (include ZIP Code) Gallagher & Associates 13226 Clopper Road Hagerstown, MD 21742-4815
Date April 18, 1997	Telephone No. (include Area Code) (301) 790 - 2611

EXHIBIT NO. E-1

ENGINEERING STATEMENT
IN REGARD TO THE APPLICATION
FOR CONSTRUCTION PERMIT
TO CHANGE THE FACILITIES OF
WBRX, PATTON, PENNSYLVANIA
CHANNEL 232A - 94.3 MHz
ERP 2.10 KW AT 167 METERS AAT

This engineering statement and associated exhibits have been prepared on behalf of Sherlock Broadcasting, Inc., licensee of FM broadcast station WBRX, Patton, Pennsylvania, to accompany an application for construction permit to improve its facilities. FM broadcast station WBRX presently operates on Channel 234A (94.7 MHz) with an effective radiated power of 1.05 kW and an antenna height of 168 meters above average terrain (AAT). It is proposed to change transmitting site, change to channel 232A (94.3 MHz) and to operate with an ERP of 2.10 kW and an antenna height of 167 meters AAT. The presently licensed facilities are equivalent to 3 kW at 100 meters AAT and the proposed facilities are equivalent to 6 kW at 100 meters AAT. This engineering report contains Section V-B of FCC Form 301 and the exhibits and data required by that section and the FCC Rules.

It will be noted that the channel change proposed is a change of two channels and therefore complies with the "one-step" upgrade permitted without rule-making. In order to accomplish this channel change it is necessary for WBXQ, Cresson, Pennsylvania, to change its facilities to channel 234A. That is, it is proposed that WBRX and WBXQ swap channels. An application by WBXQ for change in channel is being filed simultaneously with this application. Both proposals will comply with the separation requirements of Section 73.207 for full 6 kW class A facilities and will eliminate existing short-spacings, as will be described more fully below.

The swap in channels discussed above has been made possible by a grant of proposed rulemaking to change channel of WKBI-FM, St. Marys, Pennsylvania, from channel 232A to channel

EXHIBIT NO. E-1

Page 2

230B1. It is further noted that WKBI-FM has been granted a construction permit, FCC file number BPH-960118IE, for operation on channel 230B1. The present operation of WBRX is short-spaced to the licensed operation of WFGI, State College, Pennsylvania, as well as to the licensed site of WBXQ, Cresson. The geographical coordinates listed at item 14 on Form 301 are the coordinates of the site proposed herein for WBRX. The use of this site on channel 232A would eliminate the short-spacing to WFGI, and would be 30.68 kilometers from the site proposed by WBXQ, which, when rounded to the nearest whole kilometer, would comply with the 31 kilometers required by Section 73.207 of the FCC Rules. Further, the operation proposed herein would comply with the separation requirements to all other stations and allotments, including to the authorized operation of WKBI-FM on channel 230B1.

The proposed transmitting site is the same site proposed for use by a new station at Barnesboro, Pennsylvania, FCC File No. BPH-960520MI, on channel 228A (93.5 MHz) with an ERP of 2.05 kW. A third-order intermodulation study has been undertaken and it indicates that there are no stations providing service to the area operating on, or near, the frequencies that might be generated as a result of the frequencies proposed to be used at this site. There are no other FM stations and no TV stations located within 10 kilometers of the site proposed herein. The applicant will employ such measures as necessary to assure operation in accordance with Section 73.317 of the FCC Rules. The effect of receiver generated intermodulation products is dependent on the characteristics of the individual receivers involved and therefore cannot be predicted. If complaints of interference are received, the applicant agrees to rectify any complaints in accordance with Section 73.318 of the Commission's Rules, and past policies regarding such interference.

The attached Exhibit No. E-5 is a Department of Commerce Detroit Sectional Aeronautical Chart showing the proposed site, radials used for terrain analysis, the 70 dBu (3.16 mV/m) and 60 dBu (1 mV/m) contours, and the city limits of Patton, as well as the original printed latitude and longitude markings. The distance to the field strength contours shown were determined in

EXHIBIT NO. E-1
Page 3

accordance with Section 73.313 of the Commission's Rules using a computer program that duplicates the results that would be obtained from Figure 1 of Section 73.333 of the Rules. The average 3 to 16 kilometer terrain elevation of each radial was computer generated using the National Geophysical Data Center (NGDC) thirty-second data point data base. The population within the 60 dBu (1 mV/m) contour was determined using a computer program that adds the population within the census enumeration districts whose centroids are included within the contour. The area within the contour was determined by the computer using numerical integration and includes land areas only.

In October, 1985, the Commission issued OST Bulletin No. 65, entitled "Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Radiation". Section 1.1307(b)(1) of the Rules specifies that applications filed before September 1, 1997 must comply with the standards set forth by ANSI C95.1-1982, so the guidelines of OST-65 still apply. The following evaluation is based on worst case figures using the formulas contained in OST-65. It is proposed to operate with a combined ERP of 4.2 kW (H+V) and the Barnesboro facility proposes a combined ERP of 4.1 kW (H+V), for a total power of 8.3 kW. The lowest element of either transmitting antenna is 24 meters above ground level. The calculated R.F. power density at two meters above ground level is 573 microwatts per square centimeter, or 57.3% of the allowable Radio Frequency Protection Guide (RFPG) listed in OST-65. A fence or anti-climbing device will be installed to prevent unauthorized access to the tower. As can be seen, the operation as proposed herein will comply with the guidelines in OST-65. It will be the policy of both stations proposing to use this tower that no one will be permitted to climb the tower while either transmitter is in operation.

The proposed transmitting site would not involve construction in conflict with any of the conditions described in Section 1.1307 of the FCC Rules. Further, as discussed above, the proposed operation would not involve conflict with Section 1.1307(b) of the FCC Rules. Therefore,

GALLAGHER & ASSOCIATES

CONSULTING RADIO ENGINEERS

HAGERSTOWN, MD

EXHIBIT NO. E-1

Page 4

pursuant to Section 1.1306(b) of the Rules, any Commission action with respect to this application would be categorically excluded from environmental processing.

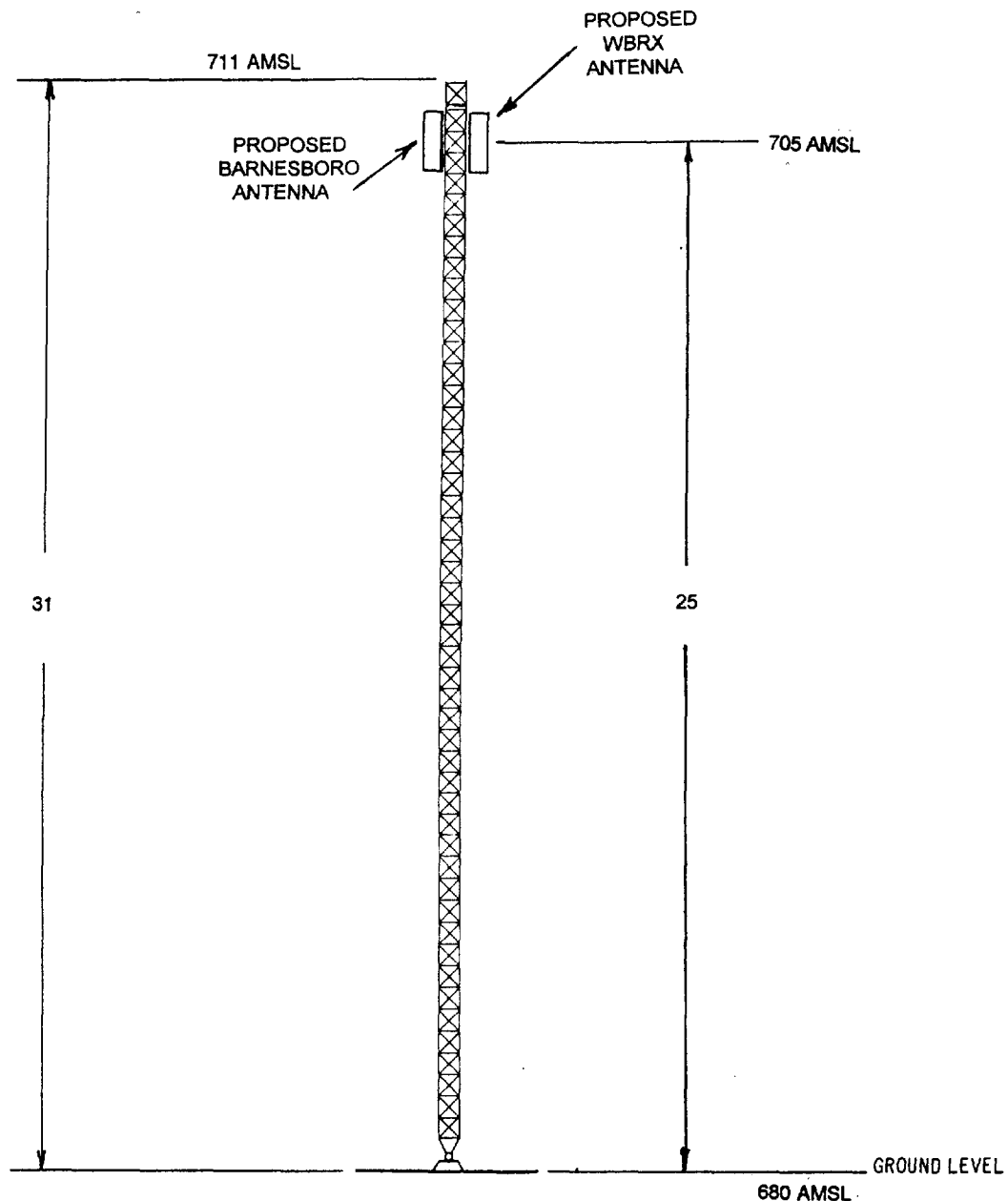
It is believed that the operation proposed herein, in combination with the operation proposed in the application by WBXQ, Cresson, Pennsylvania, will be in accordance with all of the allocation and technical requirements of the FCC Rules governing FM broadcast stations.

This engineering statement and associated exhibits have been prepared by me or under my direct supervision. I am a Consulting Radio Engineer, and a Registered Professional Engineer in the State of Maryland, Registration No. 11415, and my qualifications are a matter of record with the Federal Communications Commission, having been presented on previous occasions. All data and statements contained herein are true and correct to the best of my knowledge, information and belief.

Charles I. Gallagher
Charles I. Gallagher

April 18, 1997



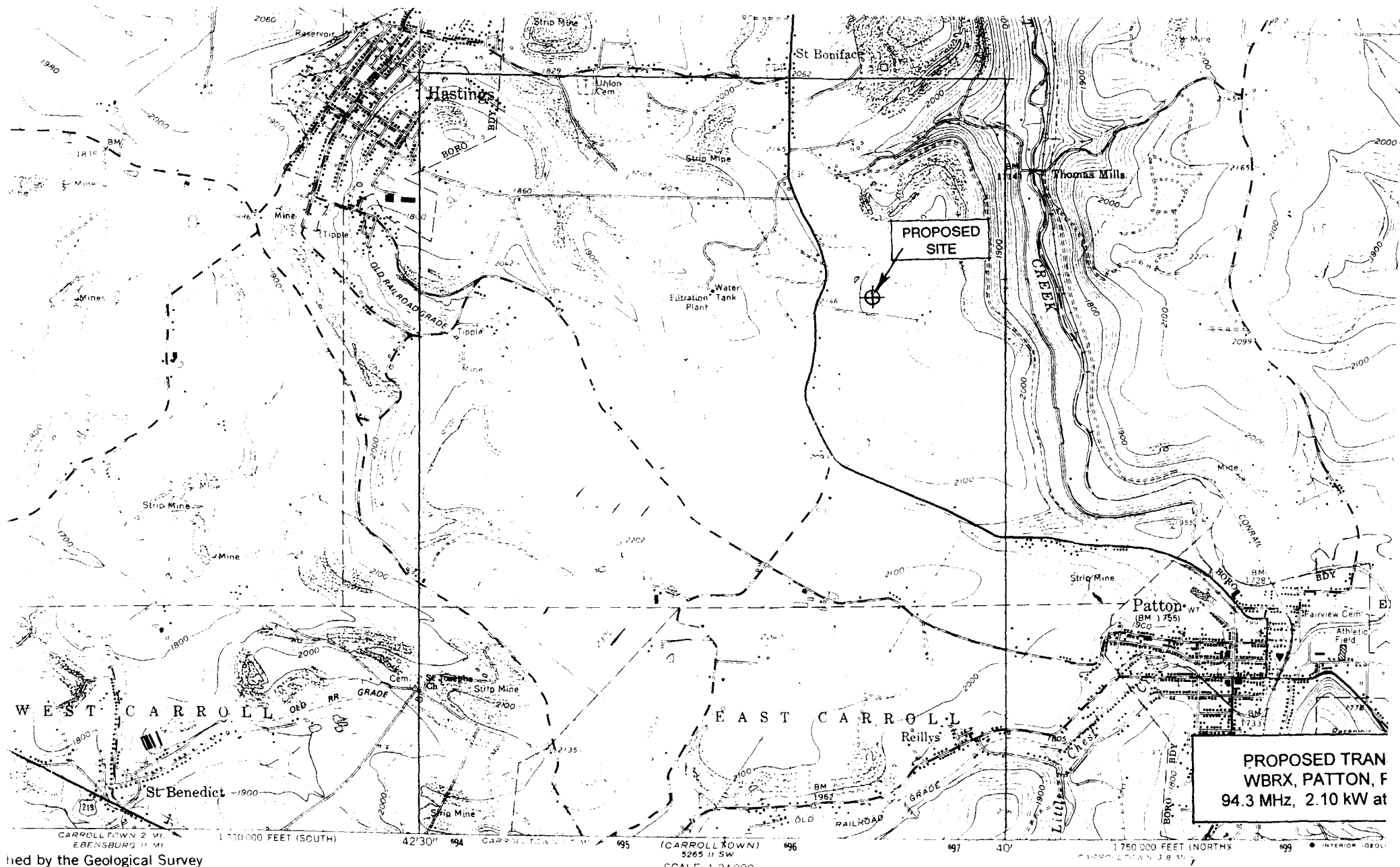


NOT TO SCALE

ALL DIMENSIONS IN METERS

GALLAGHER & ASSOCIATES
CONSULTING RADIO ENGINEERS HAGERSTOWN, MD

VERTICAL SKETCH
PROPOSED OPERATION
WBRX, PATTON, PENNSYLVANIA
94.3 MHz, 2.10 kW at 167 METERS AAT

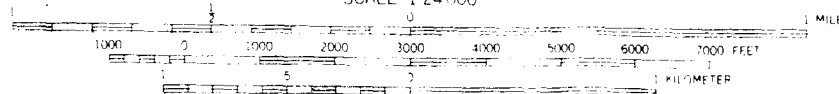
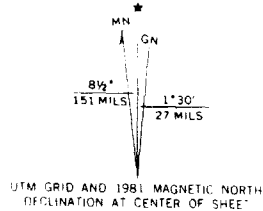


handed by the Geological Survey

Methods from aerial
checked 1961

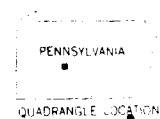
grid ticks based on
south and north zones
Mercator grid ticks,
North American Datum
1983
south and
red corner ticks

ected fence and field lines where
aphs. This information is unchecked
that the boundaries of



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



Revisions shown in purple and woodland compiled in cooperation
with Commonwealth of Pennsylvania agencies from aerial
photographs taken 1977 and other sources. This information
not field checked. Map updated 1981

RC

Heavy duty

Medium duty

U.S.I.

GALLAGHER & ASSOCIATES

CONSULTING RADIO ENGINEERS

HAGERSTOWN, MD

EXHIBIT NO. E-4

CALCULATED COVERAGE CONTOURS
PROPOSED OPERATION
WBRX, PATTON, PENNSYLVANIA
ERP 2.10 KW AT 167 METERS AAT

AZIMUTH DEGREES	ANTENNA HAAT (Meters)	E.R.P. in kW	70 dBu Kilometers	60 dBu Kilometers
0	231	2.100	19.0	32.6
45	142	2.100	14.7	26.0
90	227	2.100	18.8	32.3
135	146	2.100	14.9	26.3
180	115	2.100	13.3	23.7
225	101	2.100	12.4	22.3
270	170	2.100	16.2	28.2
315	203	2.100	17.8	30.6

Antenna height above average terrain = 167 meters

Average figures are expressed to the nearest whole number and are based on accuracy to nearest meter.

EXHIBIT NO. E-5

The field strength contours shown on this map were calculated using the procedures set forth in the FCC Rules. Actual field strengths may be different than shown.



EXHIBIT B

GALLAGHER & ASSOCIATES

CONSULTING RADIO ENGINEERS

HAGERSTOWN, MD

ENGINEERING EXHIBITS

APPLICATION FOR
CONSTRUCTION PERMIT FOR
CHANGE IN FACILITIES OF

WBXQ, CRESSON, PENNSYLVANIA
CHANNEL 234A - 94.7 MHz
ERP 0.97 kW AT 242 METERS AAT

Sounds Good, Inc.

April 1997

SECTION V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. _____
SSB Referral Date _____
Referred By _____

Name of Applicant

Sounds Good, Inc.

Call Letters (if issued)

WBXQ

Is this application being filed in response to a window? ☐ Yes ☒ No

If Yes, specify closing date: **N/A**

Purpose of Application: (check appropriate boxes)

- | | |
|--|---|
| <input type="checkbox"/> Construct a new (main) facility | <input type="checkbox"/> Construct a new auxiliary facility |
| <input type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary facility |
| <input checked="" type="checkbox"/> Modify licensed main facility | <input type="checkbox"/> Modify licensed auxiliary facility |

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- | | |
|--|--|
| <input checked="" type="checkbox"/> Antenna supporting structure height | <input checked="" type="checkbox"/> Effective radiated power |
| <input checked="" type="checkbox"/> Antenna height above average terrain | <input checked="" type="checkbox"/> Frequency |
| <input checked="" type="checkbox"/> Antenna location | <input type="checkbox"/> Class |
| <input type="checkbox"/> Main Studio location | <input checked="" type="checkbox"/> One-Step processing |
| <input type="checkbox"/> Directional Antenna | <input type="checkbox"/> Other(summarize) |

**Channel swap with
WBRX, Patton, PA
See Exhibit No. E-1**

File Number(s) **BLH-880113KB**

1. Allocation:

Channel No.	Principal community to be served:		
	County	City or Town	State
234	Cambria	Cresson	PA

Class (check only one box)

- ☒ A ☐ B1 ☐ B ☐ C3
☐ C2 ☐ C1 ☐ C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark. **7.8 kilometers west-southwest of Duncansville, Juniata**

Township, Blair County, Pennsylvania.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude and East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed. (The Commission requires coordinates based on NAD 27.)

Latitude	40 °	24 '	11 "	Longitude	78 °	31 '	35 "
----------	-------------	-------------	-------------	-----------	-------------	-------------	-------------

3. Is the supporting structure the same as that of another station(s) or proposed In another pending application(s)? ☐ Yes ☒ No

If Yes, give call letter(s) or file number(s) or both.

N/A

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

N/A

Section V-B - FM BROADCAST ENGINEERING DATA (Page 2)

- ☐ Yes ☒ No

Latitude	0	'	"	Longitude	0	'	"
----------	---	---	---	-----------	---	---	---

- ☒
- Yes
- ☐
- No

Exhibit No.
N/A

Date / Office where filed Eastern Regional Office (NY)

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	Blue Knob Valley	6.2	97
(b)			

7. (a) Elevation (to the nearest meter)

(1) of site above mean sea level; 780 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, 30 meters and lighting, if any); and

(3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)]. 810 meters

- (b) Height of radiation center: (to the nearest meter) H = Horizontal; V = Vertical

(I) above ground; 28 meters (H)

28 meters (V)

(2) above mean sea level [(a)(1) + (b)(1)]; and 808 meters (H)

808 meters (V)

(2) above average terrain 242 meters (H)

242 meters (V)

- Exhibit No.
E-2

9. **Effective Radiated Power:**

(a) ERP in the horizontal plane $\frac{0.97}{\text{ }} \text{ kw (H*)} \quad \frac{0.97}{\text{ }} \text{ kw (V*)}$

☐ Yes ☒ No

Exhibit No.
N/A

N/A kw (H*) N/A kw (V*)